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TITLE: HOT DIP ZN-AL-MG COATED STEEL SHEET EXCELLENT IN
CORROSION RESISTANCE AND EXTERNAL SURFACE
APPEARANCE, AND ITS PRODUCTION
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INVENTOR-INFORMATION:

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ABSTRACT:

PROBLEM TO BE SOLVED: To obtain a hot dip Zn-Al-Mg coated steel sheet excellent in external surface appearance as well as in corrosion resistance by using in-line annealing type continuous hot dipping equipment.

SOLUTION: This steel sheet is a hot dip Zn-base alloy coated steel sheet prepared by forming a plating layer, having a composition consisting of, by weight, 4.0-10.0% Al, 1.0-4.0% Mg, 0.002-0.1% Ti, 0.001-0.045% B, and the balance Zn with inevitable impurities, on the surface of a steel sheet. Moreover, the plating layer has a metallic structure where [primary-crystal Al phases] or [primary-crystal Al phases] and [Zn single phases] are present as a mixture in a matrix of [ternary eutectic structure of Al/Zn/Zn<SB>2</SB>Mg].